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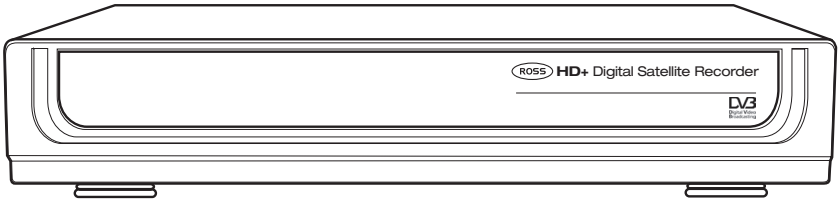

HD+ Digital Satellite Recorder

User Manual

MODEL NUMBER

HDR-8610USB

Please read this Manual thoroughly before using your Recorder and then retain for future reference.

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⚠1.0 Important Safety Instructions

1.1 Safety Information

- Read these Instructions carefully and retain for future reference. If you sell, or give this Receiver away be sure to pass on the Instructions.
- There are no user serviceable parts inside this unit. **DO NOT** remove the cover there are dangerous voltages inside. Electric shock hazard.
- This unit operates from a 170~240V 50Hz Supply. Consumption is ~25W.
- During use, this device may become warm, this is normal. **DO NOT** allow anything to block the ventilation slots as this may cause overheating and a consequent risk of fire.
- **DO NOT** place naked flames (such as candles) on this equipment.
- **DO NOT** stand other equipment on this unit.
- **DO NOT** operate close to heaters or other heat sources.
- **DO NOT** stand on soft furnishings.
- **MAKE SURE** there is a minimum clearance of 5cm on all sides of the unit.
- **DO NOT** allow anything to trap, pinch or otherwise damage the Power Cord. If the power cord should become damaged IMMEDIATELY switch the Receiver off at the wall and unplug it. You should then contact your Service Centre to carry out a repair.
- **DO NOT** overload the wall socket, this can be dangerous and lead to a fire hazard.
- **MAKE SURE** you have easy access to the mains plug in case of emergency
- **DO NOT** unplug the unit by pulling the Power Cord, always grasp the plug firmly and pull from the wall socket.
- **DO NOT** stand items such as water filled vases on this Receiver.
- **DO NOT** operate this unit in damp conditions or allow water or other fluids to enter the enclosure. If this happens, switch off IMMEDIATELY and refer the device to the Ross Helpline.
- **DO NOT** touch the mains plug or power cord with wet hands. Electric shock Hazard.
- **DO NOT** connect or disconnect cables from this receiver when it is turned on. Switch off the power first or this unit or other equipment may be damaged. This is most important for the cable from the Dish (LNB).
- **MAKE SURE** the LNB cable outer is earthed.
- **DO NOT** clean this device using solvent based products. Use only a soft dry cloth.

1.2 General Information

- Thank you for choosing a Ross Digital Satellite TV Receiver. Treated with care and used in accordance with the contents of this manual it will provide many years of reliable service.

-

  This symbol indicates that, at the end of its useful life, this product must not be disposed of with normal domestic waste. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please recycle it responsibly. You can return your used device using the return and collection service or contact the retailer where the product was purchased. Batteries used in operating this product may contain toxic agents that are hazardous to the environment. Therefore, as with the unit itself, dispose of the batteries according to the prevailing statutory regulations. Never put the batteries in normal household waste.

- CE

  This receiver conforms to all applicable EU Legislation for this type of product. Further information can be obtained from Ross if required.

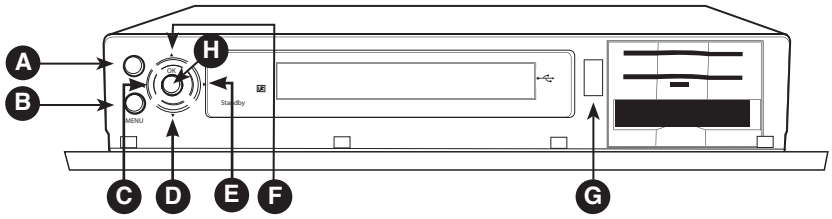
2.0 In the Box

Please open your box carefully and check the contents which should be as per the list below. If anything is missing please contact the Ross Helpline.

- **HD+ Satellite Recorder (Set Top Box)**
- **Remote Control (NOTE: 2 x AAA Batteries not included)**
- **HDMI Cable**
- **User Manual**

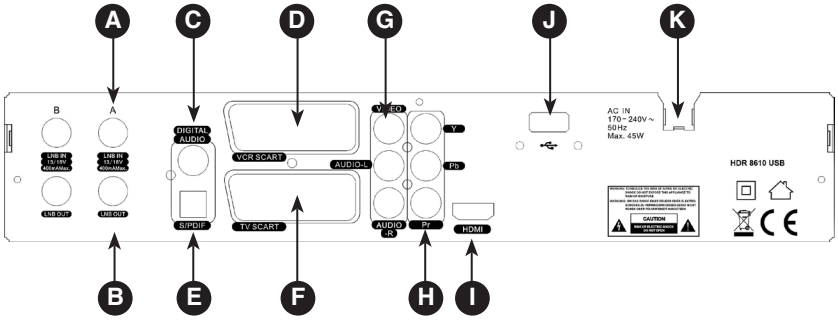
3.0 Controls & Functions:

3.1 Front Panel



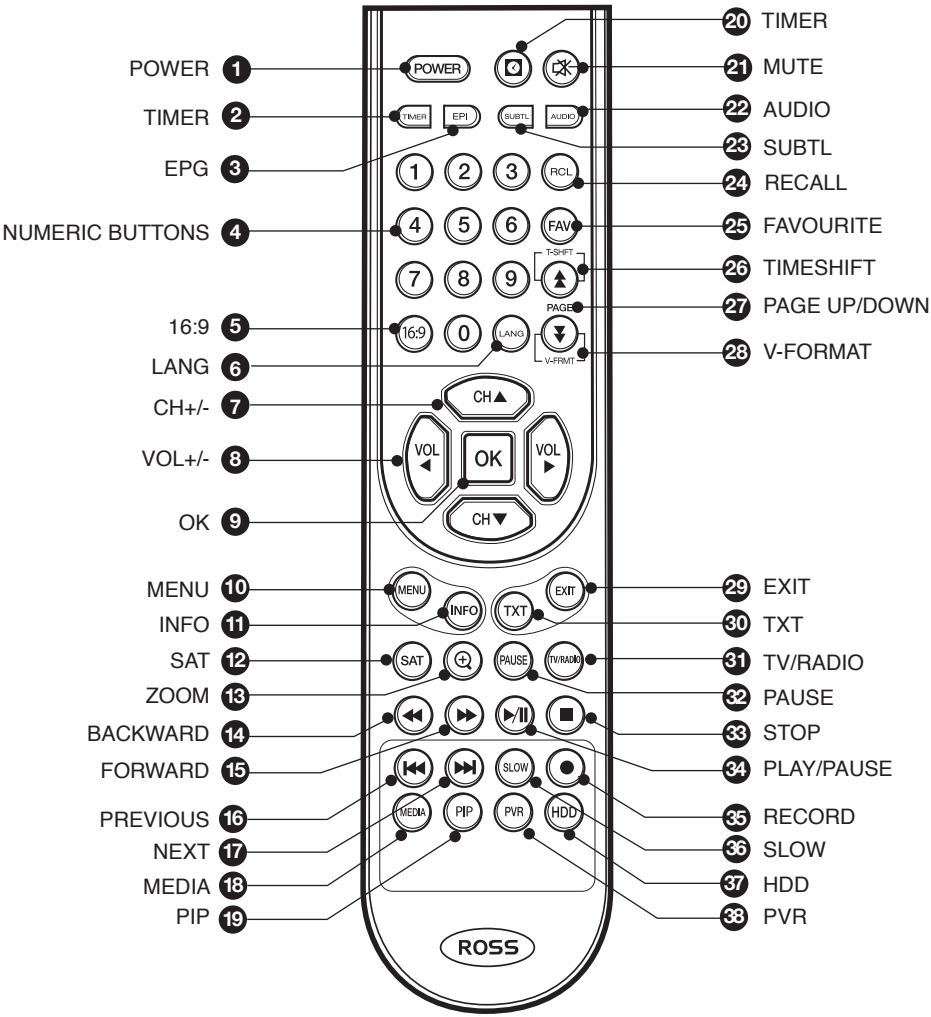
A - Standby Button
B - Menu Button
C - Volume Down Button
D - Channel Down Button
E - Volume Up Button
F - Channel Up Button
G - USB Socket
H - OK Button

3.2 Rear Panel



A - LNB IN to Tuner A and B - To connect the input cables from the satellite dish.
B - LNB OUT from Tuner A and B - To connect to other satellite recorders if required.
C - DIGITAL AUDIO - Socket for connecting digital audio cable.
D - VCR SCART - For the video/audio input of a VCR or DVD.
E - S/PDIF - S/PDIF format sound through optical output.
F - TV SCART - For the video/audio input of the TV for SD viewing only.
G - A/V RCA - To connect the Audio/Video RCA/composite output to TV.
H - Y/Pb/Pr - To connect component video YUV output to TV
I - HDMI - To connect an HDTV using HDMI cable for HD (High Definition viewing)
J - USB - For connecting USB device.
K - Mains Cable

3.3 Remote Control



3.4 Remote Control Functions

Button	Function
1	**POWER:** Turns on the power or switches the unit to standby mode
2	**TIMER:** To select upto 8 timer sequences of your choice.
3	**EPI:** Shows Now and Next EPG for the programme being viewed.
4	**NUMERIC BUTTONS:** Enter a number to select a channel directly or to select the menu options.
5	**16:9:** Changes screen display between Auto, 16:9 and 4:3.
6	**LANG:** Press to select OSD language preference.
7	**CH +/-:** Up and down select for channels. Also used in menu operations.
8	**VOL +/-:** Volume up/down. Or change pages on the channel list. Also used in Menu operations.
9	**OK:** Displays the channel list and selects the item on the menu. When in the menu press OK to save setting and exit.
10	**MENU:** Open the main menu during TV viewing.
11	**INFO/EPG:** Displays satellite and transponder information for the current programme.
12	**SAT:** To display the satellite list or channel list in the viewing mode. In the Antenna Setting or the Transponder menu press SAT to initiate a scan. (Red button to add satellite)
13	**ZOOM:** (AVAILABLE ON SD CHANNELS ONLY). (Green button to add satellite).
14	Press to rewind. (select FR*2, FR*4, FR*8, FR*16 for different speeds)
15	Press to fast forward. (select FF*2, FF*4, FF*8, FF*16 for different speeds)
16	Press to choose the previous media file.
17	Press to choose the next media file.
18	**MEDIA:** Press to enter SATA HDD multi media memory partitions.
19	**PIP:** Press the button to enter PIP menu (picture in picture mode).
20	**TIMER (Sleep):** Press to set the power off time periods-available; 10mins, 30mins, 60mins, 90mins and press the OK button to set SLEEP timer on. Alternatively use numeric keys to set your preferred time in user default mode.
21	**MUTE:** Turns the sound off and then back on with a second press.
22	**AUDIO:** Change audio output between; left, right and stereo. In the Antenna Setting menu press AUDIO to edit the satellite. In the Transponder menu press AUDIO to edit TP.

Button	Function
23	**SUBTL:** Sets broadcast dependant subtitles for the current TV programme.
24	**RECALL:** Press to switch to previously watched channel.
25	**FAV:** Select favourite channel list or current channel list in the view mode.
26	**TIMESHIFT:** Pauses live TV so that you enter 'TImeshift' mode.
27	**PAGE UP/DOWN:** Press to jump one page up or down.
28	**V-FORMAT:** Press to select the video output mode between; 1080I, 720 P and 576P. When changing video format, there will be a flicker for a few seconds as the format adjusts.
29	**EXIT:** Press to exit and save from current menu.
30	**TXT:** (NOT AVAILABLE ON THIS MODEL).
31	**TV/RADIO:** Switches between TV and Radio channels. (Blue button to delete Satellites).
32	**PAUSE:** Freeze the screen. (Yellow button to edit Satellite).
33	**STOP:** Press to STOP playback when watching a recording, playing back a media file or to stop a recording.
34	**PLAY/PAUSE:** Press to start watching or pausing a recording or media file or to playback after pausing live TV in 'Time-Shift' mode.
35	**RECORD:** Press to start recording.
36	**SLOW:** Press to slow down video recordings.
37	**HDD:** Press to enter and select the hard disc partition when you wish your recordings to be saved
38	**PVR:** To enter the currently selected PVR memory file to playback your recordings.

Please observe the following when using your Remote Control –

- Change the batteries when operation becomes poor or erratic.
- Always use two new batteries, DO NOT mix old and new.
- Dispose of old batteries in an environmentally responsible way.
- DO NOT place spent batteries in a fire or attempt to recharge them.
- If you are not going to use the Remote Control for an extended period then remove the batteries to avoid the risk of leakage.

Satellite Recorders are delicate pieces of digital equipment that performs quite complex functions. Occassionally they can lock up for no apparent reason. If this happens to your recorder, simply unplug the recorder. Then plug recorder back on and re-boot. If problem persists please contact Ross helpline.

4.0 Installation:

Introduction

This manual will help you learn the basic use of your recorder such as installation, selecting channels and many other functions of the set top box.

4.1 Satellite Dish Installation

Please refer to the separate documentation **"Satellite Dish Installation Guide"** to install your dish. You will need to assemble, erect and roughly align your dish to your chosen satellite before connecting up and turning on your Recorder.

4.2 Recorder Installation

4.2.1 Connecting your Recorder

Having completed the assembly and erection of your dish connect the satellite cables from your dish to the LNB IN terminals on your recorder and your HDMI lead from the rear of your recorder to an available socket on your TV or AV Amplifier. If you are not using an HD compatible TV then you will need to connect to your TV using a SCART lead and optionally the Optical Audio Out to an AV Amplifier. If you are using the HDMI socket then you only need to connect this as it feeds both high quality audio and video to your TV. Finally, plug your Recorder mains plug into a wall socket but **do not** switch it on yet.

4.2.2 Preparing your Remote Control

Your Remote Control requires 2 x AAA (LR03) batteries to operate. Open the cover on the rear of the Remote Control by sliding it downwards and insert two batteries taking care to observe the polarity markings inside the compartment.

4.2.3 TV Format Set-Up

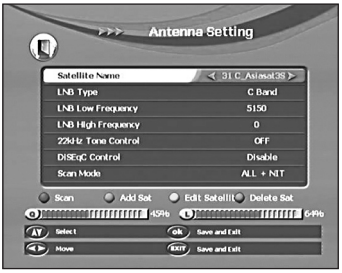
You are now ready to switch on and adjust your dish to complete alignment (for this refer to the separate instructions). Turn on your TV and your Satellite Recorder (both at the wall socket and on the rear of the unit). Proceed as follows:–

- Press the POWER button on your Remote Control or the STANDBY Button on the Front Panel of the Recorder to turn the unit on.
- Select 'English' from the Language Choice Menu.
- Then select 'O' ENGLAND from the Country Choice Menu
- If you get a 'Mode not supported' message on your TV - You need to alter the Recorder resolution to match the resolution of your TV – The factory default is 720p.The Resolution is changed by pressing the 'V Format' button on your remote control. Adjust between 480, 576, 720 and 1080i TV Resolutions as required. 1080i is the highest available resolution for HD channel reception.
- Make sure your TV source is set to receive the signal from your Recorder.

NOTE: If you are using this Recorder in conjunction with a pre-installed dish which is already aligned to ASTRA/EURO1 then at this point you will see "NO CHANNEL" being displayed. At this point press the "OK" button and your Channel list should be displayed showing all the programmes that were loaded onto the recorder during manufacture. Your Recorder is now ready to use.

4.2.4 Check Satellite Signal Reception

- Press the Menu Button on the Remote Control.
- The Installation Menu will be displayed.
- Press OK to enter the installation Menu.
- Using the CH- Button select Antenna Setting and then press OK.
- Please note that ASTRA 2A/B/D and Eurobird 1 satellite is labelled 04.ASTRA/EURO1.
- Your Recorder has a large number of the available Satellites already programmed in to make setting up easier for you. You can see the Satellite name at the top right of the OSD (On-Screen Display).
- Using the VOL+ Button select the SATELLITE you are aligning your dish to (usually this will be the ASTRA 2A, 2B, 2D / EUROBIRD 1 if you want the most common Free to Air English language channels such as BBC 1 ,2, etc….) and then press OK, then Exit.



NOTE: DO NOT change any of the other settings on the Antenna Setting Menu, these have already been programmed into your receiver in the Factory.

- Now refer back to your **"Satellite Dish Installation Guide"** to fine tune your signal reception.
- Use the signal level indicators as displayed in the two bars (Q= Quality, L=Level) towards the bottom of the Antenna Setting Menu to help fine tune reception (try to obtain better than 50% for both).

4.2.5 Fast Channel Set-Up Astra 2A/B/D/Eurobird 1

The HD+ Satellite Recorder is pre-programmed with the most popular English Language channels from the Astra2A/B/D and Eurobird 1 Satellites, so there is no need to scan these channels. Simply press the Exit button to come out of the Installation menu screen, then the Red SAT button to go into the channel list. All channels should now be available.

4.2.6 Chosen Satellite Scan

Should you wish to obtain channels from a satellite other than Astra2A/B/D and Eurobird 1, follow 4.2.4 to check your chosen satellite signal reception strength, then press the Red (Scan) button to scan for channels from your chosen satellite.

- Your recorder will now scan for all available programmes on your selected Satellite. This may take several minutes.
- When the Scan has completed, the Programmes will be saved automatically.
- Press EXIT to leave the Installation Menu
- You can now enjoy all the available Programmes on your chosen Satellite.

5.0 Menu System:

5.1 Installation Menu

In this part of the manual only the basic installation is covered. If you wish to set up your recorder to work with a motorised dish then please refer to SECTION 6, “Advanced Installation”. The MENU provides access to many features and functions which will help to improve your enjoyment of your new product. Press MENU and OK to enter the INSTALLATION Menu, then use the CH-, CH+ keys to select the item you wish to adjust and the VOL-, VOL+ to select the new setting. Then press OK to store.

5.1.1 Selecting your Satellite

Use this option within the ANTENNA SETTING menu to select your desired Satellite.
NOTE: If you change the selected Satellite you may need to re-adjust your dish.

- Press OK on ANTENNA SETTING to enter the menu, then use the VOL- and VOL+ buttons to select your required satellite.

5.1.2 Selecting your SCAN Mode

- Then use the CH- button to scroll down to SCAN MODE.
  NOTE: DO NOT change any of the other settings on the Antenna Setting Menu, these have already been programmed into your recorder in the Factory.

Select the Scanning mode of your chosen satellite; FTA only, ALL, FTA+NIT or ALL+NIT.
FTA only: To Search for all the Free Channels available with the selected satellite or transponders.

ALL: To Search for all the Free Channels + Scrambled Channels available with the selected Satellite or Transponders.

FTA + NIT: To Search for all the Free Channels available with the selected Satellite or Transponders including the new transponders that are not pre-programmed in your set top box but broadcasted by the Satellite Stream.

ALL + NIT: To Search for ALL Channels available with the selected Satellite or Transponders including the new transponders that are not pre-programmed in your set top box but broadcasted by the Satellite Stream.
NOTE: Changing this setting from, for example, ALL to FTA or FTA+NIT will reduce the number of Programmes stored as it will remove encrypted programmes. This will make the task of editing / sorting programmes easier.

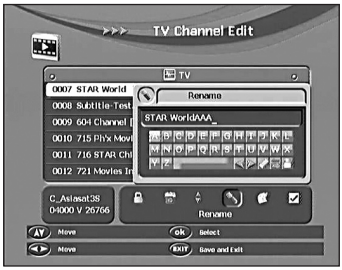
- Press Red SAT button to start Satellite Scan. This may take some time.
- Press EXIT to save channels and exit.

5.2 Channel Edit Menu

This section describes how you can edit your programmes. To enter the CHANNEL EDIT menu, press MENU and then VOL+ and OK.

5.2.1 TV Channel Edit

Using the “VOL-” and “VOL+” buttons you can select from the options of; LOCK, DELETE, MOVE, RENAME, EDIT and SELECT functions to edit your TV programmes. You can press the “CH-” or “CH+” buttons to select the channel, and press “VOL-” or “VOL+” button to choose the functions which are displayed towards the bottom of the OSD. Press the “OK” button to activate your choice.



- **Lock -** To prevent the viewing of channels that are not suitable for Children. Select the channel to Lock, and choose the Lock function, then press the “OK” button. This will lock the selected channel from unauthorised viewing. Pressing the “OK” button one more time, will unlock the channel. Press EXIT to confirm your choice. When you press exit you will be prompted to confirm your choice if you have unlocked a channel by entering your password. The channel will then be unlocked.

- **Delete -** Select the channel you want to delete, and select the Delete function, then press the “OK” button to delete the selected channel from the set top box. Pressing the “OK” button again will cancel this operation. When you exit the menu you will be prompted to confirm the delete and asked to enter your password. The channel will then be deleted.

- **Move -** Select the channel you want to move, and select the Move function, then press the “OK” button to bring up the pop-up Move-To menu box. Then input the channel number you want to move your selected channel to, and press the “OK” button again to move.

- **Rename -** Select the channel you want to rename, and then select the rename function. Press the “OK” button to bring up the pop-up Rename menu. To edit the channel name, select the letters to rename using ☑ the “VOL” and “CH” buttons. Select the save logo and press the “OK” button to save and exit.

- **Edit -** Select the channel you want to edit and select the Edit function, press the “OK” button to bring up the pop-up Edit menu, input the PID value for; Video, Audio, PMT, PCR, and Tele by the numeric keys. Press the “EXIT” button to save and exit.
  NOTE: USE THIS FUNCTION WITH CAUTION

- **Select -** Highlight the “Select” function, press the “CH-” or “CH+” buttons to select the channels. Press the “OK” button, you can select multiple channels at any one time, then you can lock or delete them together.

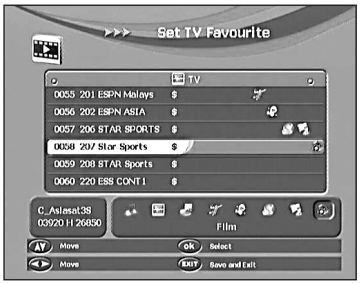
5.2.2 Radio Channel Edit

Using the “VOL-” and “VOL+” buttons you can select from the options of; LOCK, DELETE, MOVE, RENAME, EDIT and SELECT functions to edit your Radio programmes. You can press the “CH-” or “CH+” buttons to select the channel, and press “VOL-” or “VOL+” button to choose the functions which are displayed towards the bottom of the OSD. Press the “OK” button to activate your choice.

- The procedure for editing Radio channels is identical to that for TV Channels as described in Section 5.2.1.
- Press the TV/Radio button 31 on your remote control to enter the radio channels.

5.2.3 Set TV Favourites

This easy to use option makes it simple for you to find the channels that you want to watch. Personalise the list in your own way to sort favourite channels and put them into easy to find groups.



- There are a total of 8 favourite sorting groups: Music, HDTV, Finance, Lifestyle, Children, News, Shopping and Film.
- **Example -** To include TV Channel 10 in the favourite group – Music: Move using the “CH-” or “CH+” buttons to highlight Channel 10, then move using the “VOL-” or “VOL+” buttons to select the Music group, press the “OK” button, then you will see a logo displayed at the left beside channel 10, then press the “EXIT” button to save and exit. Now channel 10 is saved in the Music favourite group. When you are watching your TV just press the FAV button to bring up your list of favourites, then scroll through the categories to find the one you want to watch.

5.2.4 Set Radio Favourites

The procedure for setting Radio Favourites is identical to that for TV Channels as described in Section 5.2.3.

5.2.5 Program Back Up

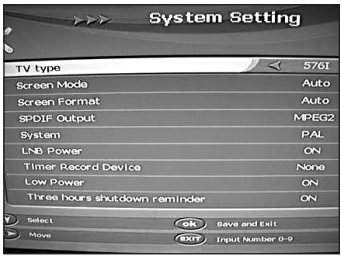
Select Program Back-Up to create a database of your channel configuration. This can be found as a .bin file in Users Settings/Multimedia/SATA/Volume 0/PVR. To re-install your saved TV Channel database, press the Media Button on your Remote, then select partition/volume0, select your database .bin file which includes the date it was made, then confirm update by clicking on the red button on screen. Your saved database of channels will then repopulate the recorder

5.3 System Menu

The options in this section enable you to set up options within SYSTEM SETTING to match your TV, set the LOCAL TIME, configure and setup timers for timed recordings in TIMER and check SYSTEM INFORMATION. Press MENU and then VOL+ to enter the SYSTEM Menu, then use the CH-, CH+ keys to select the item you wish to adjust and the VOL-, VOL+ to select the new setting.

5.3.1 System Setting

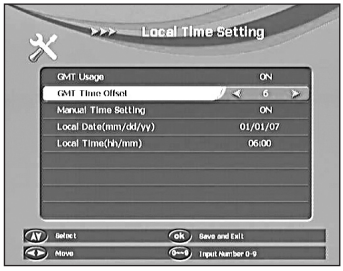
Adjust the SYSTEM SETTINGS to match your TV and other equipment. When finished configuring the settings, press “OK” to save and exit. You will be prompted to confirm your new settings prior to exiting.



- **TV type:** Set your desired Resolution selecting from; 1080i, 720p or 576p. It is advised to select 1080i for High Definition.
- **Screen Mode:** To set between 16:9 wide screen and 4:3 TV screen mode, set to Auto as default.
- **Screen Format:** To set the Screen mode format to Letter Box, Combined, Pan & Scan or Auto format
- **SPDIF Output:** To set SPDIF audio format output to Dolby or PCM
- **Frame Rate:** To choose between; PAL, NTSC or Auto as the output type.
- **Low Power:** Keep switched to ON to save energy.
- **Three Hours Shut Down Reminder:** If set to ON the Recorder will go into STANDBY after three hours of inactivity.

5.3.2 Local Time Setting

Here you can set the TIME and DATE on your Recorder.



- **GMT Usage:** To activate GMT Time Offset settings. Set the GMT Time Offset (number of hours from -12 to 12, default set to ON).
- **Manual Time Setting:** (Default set to OFF)
- **Manual Date / Time Setting:** To edit the time and date settings the MANUAL TIME SETTING will need to be set to ON.
  Local Date (dd/mm/yy): Set the Local Time by inputting numbers 0~9 for hour and minute.
  Local Time (hh /mm): Set the Local Time by inputting numbers 0~9 for hour and minute.

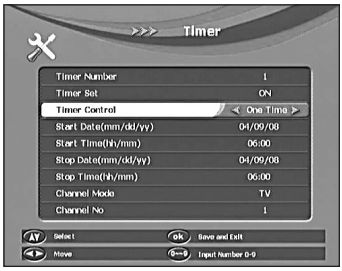
NOTE: It is recommended you leave both GMT USAGE and MANUAL TIME SETTING to the default setting of OFF. In this way your date and time will be set automatically from received programmes.

5.3.3 Timer

- Press TIMER button ❷ to enter directly from the remote control.

The TIMER Menu provides access to 8 Timers for you to programme enabling you to switch to your desired programme at a specific time to avoid missing something you want to watch. Using the VOL+, VOL- and CH+, CH- buttons to set the preferred configuration, press the OK button to set the timer, you can also set the preferred Power On mode for TV or Radio.

- **Timer Number:** Select from Timer 1 to 8, you can set 8 different Timers in total.
- **Timer Set:** Select 'ON' to activate each Timer. If the Timer Set is off, no other changes can be made.
- **Timer Control:** There are 4 Timer Control settings:
  'Power Off', 'Power On' - to switch recorder on or off at a set time,
  'One Time' - to pre-set a channel recording in the future and
  'Every Day' - to pre-set a regular daily recording



- **Power Off: -** Use the numeric keys to enter time and / or time / date information.
- **Power On:** Use the numeric keys to enter time and date information.
- **One Time:** To set the timer for one event only
- **Every Day:** To set the timer to repeat every day
- **Every Week:** To set the timer to repeat every week
- **Start Date / Time:** Enter the Start Date and Time by pressing the numeric keys on the remote control, and the set top box will change automatically to the preset channel at the start time, if the set top box is in standby mode; it will automatically power on and change to the preset channel.
- **Channel Mode:** To Select between TV and RADIO mode.
- **Channel No:** To set the Channel, which you would like the Timer to record, scroll down to Channel Number and press 'OK'. Then select the channel you wish to record from the drop down menu and press 'OK'.

5.3.4 System Information

Provides details of the Software and Hardware versions installed in your Recorder.

5.4 User Settings

This section allows the setting of PARENTAL CONTROL preferences, OSD settings, the MULTIMEDIA area where you view TV recordings and the FACTORY DEFAULT (resets the whole recorder back to how it left the factory). Press MENU and then VOL+ to enter the USER SETTINGS Menu, then use the CH-, CH+ keys to select the item you wish to adjust and the VOL-, VOL+ to select the new setting.

5.4.1 Parental Control

To prevent unauthorised access of a range of features on your set top box or to selected channels. Areas you can restrict access to are – INSTALLATION LOCK, CHANNEL EDIT LOCK, CHANNEL LOCK, MENU LOCK, Recorder LOCK and SYSTEM SETTING LOCK. You can also set the Parental Control Password to your Recorder. (The Factory Default Password is: 0000)

- **Installation Lock:** To lock the installation menu to prevent unauthorised adjustment of the Installation.
- **Channel Edit Lock:** To lock the Channel Edit menu to prevent unauthorised adjustment of Channel settings.
- **Channel Lock:** To lock channels from viewing which are not suitable for children.
- **Menu Lock:** To lock the menu to prevent unauthorised access to the menu.
- **Recorder Lock:** To lock the recorder to prevent from unauthorised viewing of any channel
- **System Setting Lock:** To lock the System Setting menu to prevent unauthorised adjustment of System Settings
- **Change Password:** Press OK to bring up the pop-up menu, input the new password using the numeric keys, and then repeat again to verify the new password.

NOTE: If you change the password REMEMBER to WRITE DOWN the NEW PASSWORD and keep it safe.

5.4.2 OSD Control

In this Menu you can Select the preferred MENU LANGUAGE, STANDBY DISPLAY, INFORMATION BAR TIMEOUT and REMOVE TIMESHIFT FILE.

- **Menu Language:** To select the preferred OSD language. “English” is set as the default language.
- **Standby Display:** Turns the Time Display ON or OFF when in Standby Mode.
- **Information Bar Timeout:** To set the timeout period for the Information Bar. From 2 to 9 seconds.
- **Show Time:** Switch on to show time permanently in the top right hand corner of the TV screen display.
- **Remove Timeshift File:** When you use the timeshift function, recording files are???? created and stored. Change to ‘Yes’ if you want them to be removed automatically.
  Tip: It is advisable to set this as ‘Yes’ to avoid file build up.

5.4.3 Multimedia

5.4.3.1 HDD Management

In this menu you can select from USB or SATA. Go into SATA to access the internal 320Gb Hard Disk Drive (HDD) which is a SATA type device. Go into USB to access a connected USB device (Memory stick of portable HDD).

All of the following menu functions are applicable to both SATA HDD and USB

SATA (Serial Advanced Technology Attachment)
The SATA or “Serial ATA” is an interface used to connect the 320GB hard drive to your Satellite Receiver.

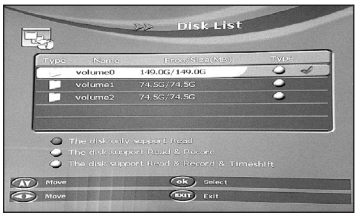
SATA Partition management
This section describes the SATA device menu so that you can Format, Create, Delete and Rename Partitions within the SATA Hard Drive.
Select Multimedia to enter the SATA menu.
From the SATA device menu, use the CH+/- key to select the ‘SATA’ area.

- **Delete:** Press the Red button to delete all selected partitions.
- **Remove:** Press the Yellow button to remove all current partitions within SATA.
- **Create:** Press the Green button to Create a new partition (note: only 4 Partitions can be created)
- **Format:** Press the Blue button to formats all selected partitions.

5.4.3.2 Media and Folder Management

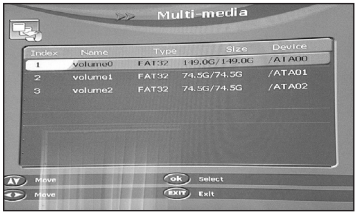
Video Partition Choice
The primary function of this feature is to enable the user to select the partition (volume) they wish to use for the PVR function of the receiver. To enter, press the HDD button and you will see the Disk List OSD screen showing the partitions/volumes of the SATA HDD and also any connected USB device. Colour codes against each of the partitions (volumes) show the features supported by the specific partition, i.e.:

- **RED:** The disk only supports READ
- **YELLOW:** The disk supports READ and RECORD
- **GREEN:** The disk supports READ, RECORD and TIMESHIFT.



Scroll up or down to the partition that you require and click OK. A red tick confirms your choice of partition.

Video Folder Selection
Press the MEDIA button on your remote control to enter the Multimedia menu. You will see an OSD screen showing the current SATA HDD PARTITIONS (or Volumes) and (if connected) lastly, any USB device attached to the USB Port.



Using the CH+/- buttons, select the desired partition from the HDD or the USB device and press OK. This opens up the folders within the partition in the OSD marked Disk List.

From here you have the following functions:

- **MOVE** – This enables selection of a folder within the DISK LIST. Press OK to view the sub folders.
- **COPY/ PASTE** – This useful feature enables a copy of a file (or recorded programme) to be made in another folder, partition or volume. This means that if you create a folder, for example, “FILMS” you could then copy and paste any films you have recorded to that folder.
- **SELECT** – Use the CH+- buttons to select the Partition or Volume that the file you wish to copy is in and press OK.

Again using the CH+- buttons select the FILE you wish to copy and press OK.

- **Copy:** Press VOL- to copy your file and then press EXIT to take you back to the list of Partitions / Volumes.

- **Paste:** Select the Folder / Volume or Partition where you wish to place your copy and press OK. Using the CH+- button select (if required) the individual folder within the partition where you wish to place your copy and again press OK. Now press the VOL+ button and you will be asked to confirm. Press OK and your file will be copied to your chosen location.

- **Update:** Used for Software updates and re-installing a channel database. Only install software approved and provided by Ross.

- **Delete:** Use the CH+- and OK buttons to select the file you wish to delete. Press the DELETE (GREEN) button. You will then be asked to confirm, press OK and your file will be deleted.

- **Create Path:** This is used to create a FOLDER within a Volume / Partition. Using the CH+- and OK buttons select the location where you wish to create the folder and then press the CREATE PATH (YELLOW BUTTON). The keypad will be displayed, type in the name of the FOLDER you wish to create and save it using the disk symbol in the bottom right of the keypad. Your FOLDER will now be created.

- **Rename:** To rename a Folder use the CH+- and OK buttons to select the folder to rename and then press the RENAME (BLUE BUTTON). Use the ERASER symbol to delete the original name and then type in the new name pressing the disk symbol in the bottom right of the keypad to save. Your Folder will now be renamed.

6.0 Personal Video Recorder (PVR):

The Ross HD+ Satellite Recorder has a number of features to allow versatility in when you watch TV.

It has a Time Shift Record function so that you can pause and catch up with live TV.
It has a massive 320Gb Hard Drive so that you can record many hours of your favourite TV.
You can make Instant video recordings of live TV while you watch another channel.
You can set the Recorder to make timed Video recordings of TV when you are out.
These are explained below.

6.1 Time-Shift Recording (TSR)

The Time-shift function enables you to pause and then watch live TV to fit in with your time schedule. You can then watch or stop the programme at your leisure, rewind or fast forward to catch up with live TV using the buttons on the remote.

Record
To operate time-shift whilst watching the programme, press the Time-shift button 26 on the remote control.

The time-shift information bar will appear at the bottom of the screen and the TV picture will be paused. The information bar displays the increasing time of live TV being recorded and the total recording time available.

Playback
When you wish to commence watching the TV programme being recorded press the Play button on the Remote control. The play bar appears which shows the time gap between the broadcasting point and watching point and the amount of temporarily saved programme.

FF/FB/Pause
If you wish to catch up with live TV or skip the commercial breaks, simply press the FF button 15 on the remote control. You can also rewind and watch again whilst live TV is still recording.

Press Exit to get out of Timeshift mode.

N.B. All of your Time-shift recordings are saved to the SATA hard disk drive unless you set the 'Remove Timeshift File' to 'Yes' in the OSD Control menu.

6.2 General TV Recording

Instant Video Recording
To start recording live TV simply press the Record Button 35 on the remote control.
You will see a small red record button confirmation appear in the top left hand corner of the TV screen and a progressive timer. This quickly disappears but will reappear when you change channels.

You can continue recording a required channel whilst watching another.

If you get an error message when trying to do this, you need to adjust your Tuner Set up. See section 7.5. Enter the INSTALLATION menu then use the CH- keys to select Tuner Set up. Select 'Tuner connect type' and set to 'Same Satellite' if you are trying to watch and record TV channels from the same satellite.

Stop Recording
Press the STOP button 33 on the Remote control to stop recording. You will then be prompted to confirm ('Yes' or 'Cancel') your indication to stop recording as a fail safe in case you did this by mistake. Likewise if you press the EXIT or MENU buttons whilst recording a TV channel you will be prompted whether you wish to finish recording.

Playback
Your recording will then be stored in the main Partition of the SATA hard drive. The receiver allocated file name will have an abbreviated channel name prefix and date corresponding to the channel that you have just recorded. To access your recording, press the PVR button on your remote control. You will see an OSD screen showing the contents of the partition (volume) that has been allocated to the PVR function. The listing (labelled DISK LIST) will show the folders containing the programmes that have been recorded.

Disk List: Using the CH+/- buttons select the desired folder containing your recording and press OK.

Play Recording: Having selected your Folder press OK, then select the video file and press OK again. Your recording will now playback. You can then use all the normal playback controls to move forwards and backwards etc. within your recording.

Move: This enables selection of a folder within the DISK LIST. Press OK to view the sub folders: COPY PASTE, UPDATE, DELETE, CREATE PATH. For these functions see section 5.4.3.2 Media and Folder Management.

6.3 Timed Recordings

The Ross Recorder does not pick up 8 day EPG from the satellite transmissions. It does however have a Timer record function that enables you to pre-set the unit to record those favourite TV programmes when you are out. It is possible to set up to 8 future recordings at any one time and can also be set to repeat daily or weekly.

To prepare Timed recordings press the TIMER button to enter directly from the remote control or go into the Timer menu as described in 5.3.3 above to set up your timed recordings.

You need to set up the exact times and dates when you want to record the TV programme including exactly when it starts and finishes and which TV channel it is on.

Once the timer record takes effect it will automatically start to record the program setup by the timer.

- If the Recorder is in standby status when timed recording is due to start it will automatically wake up and start to record the pre-set program. Then when the timer stop time is reached, the Recorder will automatically save the recorded program and automatically go back into standby.
- If the Recorder is working when timed recording is due to start it will automatically start to record the pre-set program. Then when the timer stop time is reached, the Recorder will automatically save the recorded program

Your timed recordings will be saved to the HDD in the SATA area as already described. You can then access these and watch them at your leisure.

6.4 Recording to USB Device

If you wish to record live TV onto a USB Stick or portable USB Hard Drive you can do this by plugging the device into the USB port into the Recorder.

You then need to select the Partition that corresponds to the USB device that you have just plugged in from the DISK LIST MENU. Enter this by simply pressing the HDD Button 37 on your remote control. This brings up the DISK LIST Menu. To change Partition/Volume, simply use the CH+/CH- keys to select the partition and press OK. The USB Device will be seen normally under Partition/Volume 3.

Then proceed to record live TV using your remote control as above.Your recording will then be stored on your USB Device. The receiver allocated file name will have an abbreviated channel name prefix corresponding to the channel that you have just recorded.

Playback from USB
To replay your recorded TV from the USB stick, simply press the MEDIA button on your Remote control to directly enter Multimedia area. Then choose USB to bring up a list of Folders and files on your USB device.

Press the OK button on your chosen recorded file. The recording will start to play. Use the FF, FR, Pause, Play and Slow keys as required to enjoy playback of your TV recording.

Playback of other types of recording
Using the USB interface, it is possible to playback many kinds of recording on your Ross Digital Recorder.

The Recorder will play back files in a variety of formats including AVI, MP3/4, MPEG-2/4 and JPEG formats.

After these recordings have been made and saved to your USB device, simply plug your USB stick into the recorder and press the MEDIA button on your Remote control to directly enter the Multimedia area. Then choose USB to bring up a list of Folders and files on your USB device.

Press the OK button on your chosen recorded file. The recording will start to play.Use the FF, FR, Pause, Play and Slow keys as required to enjoy playback of your TV recording.

7.0 PIP:

This Receiver is equipped with a PIP (Picture in Picture) feature which can prove extremely useful if you don't want to miss key moments in, for example two concurrent sporting events.

NOTE: For PIP to be able to view programmes from the same SATELLITE as your main programme the TUNER SETUP in the INSTALLATION MENU must be set to SAME SATS. If it is set to DIFFERENT SATS then you wil only be able to view Programes from TUNER B. This means that you will need to have tuned TUNER B to another SATTELITE for PIP to work.

Press the GAME (PIP) button on your remote control. An OSD window appears on screen showing PORTAL and PIP. If you select PORTAL and press OK the SATELLITE you have selected will be displayed. If you press PIP then a CHANNEL LIST will appear on the left of the screen. Using the CH+- buttons select the programme you wish to appear as a PIP and press OK to confirm. The PIP of your choice will now appear in the top right hand area of the screen. Press EXIT to remove the CHANNEL LIST window.

7.1 Advanced PIP Controls

7.2.1 Active Sub Window (Red Button)

If you press theRED button the box around the PIP window turns red and the following functions are available:

- **MOVE:** Use the CH+- and VOL +- buttons to move the PIP window to a position of your choice.
- **ZOOM:** Press the OK button to increase the size of the PIP window.
- **SWITCH PATH:** This is only required if a CI unit is fitted.
- **SWITCH WINDOW:** This switches the PIP and MAIN WINDOW over, that is your previous main programme becomes the PIP and vice versa.

NOTE: When the frame of the PIP is RED all the above controls are continually active.

7.2.2 Remain Sub Window (Yellow Button)

If you press the YELLOW button then the frame of the PIP window turns YELLOW and the existing PIP is locked. This allows the user to change Channel or Volume without affecting the PIP programme.

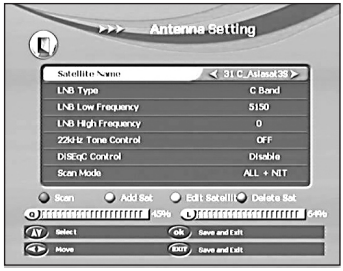
8.0 Advanced Installation:

This section is aimed at the more experienced Satellite Recorder (Set Top Box) user. Specifically, it describes how to set up your unit to work with a Motorised Dish and how to add additional Satellites that are not present in the Factory pre-loaded list.

Press MENU to enter the INSTALLATION Menu, then use the CH-, CH+ keys to select the item you wish to adjust and the VOL-, VOL+ to select the new setting. Then press OK to store.

8.1 Antenna Setting

This section enables you to adjust the Recorder to match your LNB and set other parameters for your installation.



- **LNB Type:** Select the type of LNB used with your dish. Options are, UNIVERSAL, C BAND, UNICABLE or NORMAL.
- **LNB Low Frequency / LNB High Frequency:** Input the LNB LOW and LNB HIGH FREQUENCY for your LNB using the numeric keys if required.
- **22kHz Tone Control:** If the LNB frequency is not universal, the 22 KHz should be set to “OFF”.
- **DiSEqC Control:** If your satellite recorder has been connected to a DiSEqC switch, select the port of DiSEqC or the TONE BURST A or B as appropriate.
- **Scan Mode:**
  Select the desired Scanning mode for the satellite; FTA only, ALL, FTA+NIT or ALL+NIT.
  FTA only: To Search for all the Free Channels available with the selected satellite or transponders.

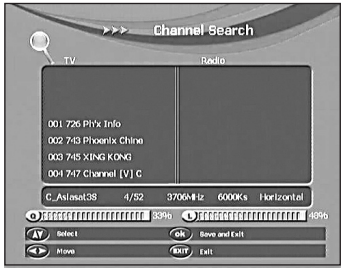
  ALL: To Search for all the Free Channels + Scrambled Channels available with the selected Satellite or Transponders.

  FTA + NIT: To Search for all the Free Channels available with the selected Satellite or Transponders including the new transponders that are not pre-programmed in your set top box but broadcasted by the Satellite Stream.

  ALL + NIT: To Search for ALL Channels available with the selected Satellite or Tran sponders including the new transponders that are not pre-programmed in your set top box but broadcasted by the Satellite Stream.

[1] SCAN
Press the RED button “SAT”, to search for channels from the current satellite.

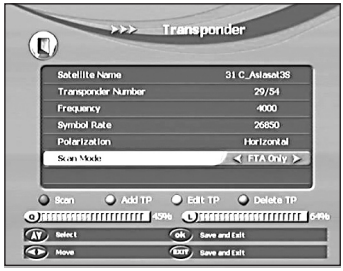
[2] ADD SATELLITE
Press the GREEN button “ZOOM”, to add a new satellite, configure the settings such as; satellite name, east/west and longitude then press “OK” to save and exit.



[3] EDIT SATELLITE
Press the YELLOW button “PAUSE”, to edit the current satellite. Edit the satellite name, east/west and Longitude, then press “OK” to save and exit.

[4] DELETE SATELLITE
Press the BLUE button “TV/RADIO” to delete the current satellite. Choose the “YES” option to delete or the “Cancel” option to exit.

8.2 Transponder



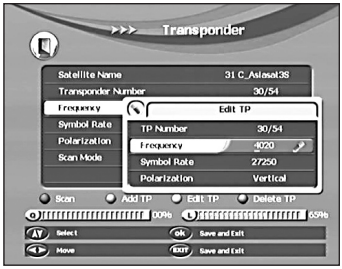
This Menu allows you to edit the various options for the (TP) transponder settings and specifications.
You can also manually search for single transponders programs by selecting SCAN.

- **Transponder Number:** Select the TRANSPONDER you wish to edit (e.g. 5/95).
- **Frequency:** Check or set the FREQUENCY of the selected Transponder
- **Symbol Rate:** Check or set the SYMBOL RATE for the selected Transponder
- **Polarisation:** Set to HORIZONTAL or VERTICAL Polarisation as required.
- **Scan Mode**

[1] SCAN
Press the RED button “SAT”; to scan the current TP. The scan mode is the same as satellite; FTA ONLY, FTA+NIT, ALL+NIT and ALL

[2] ADD TP
Press the GREEN button “ZOOM”; to add a new TP.
Input the frequency value and symbol rate value by numeric key, choose the correct Polarization, Horizontal or Vertical, then save and exit.

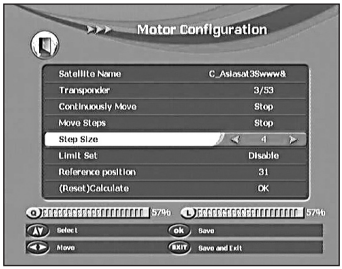
[3] TP EDIT
Press the YELLOW button “PAUSE” to edit the current TP. Choose the current TP number by “VOL-” or “VOL+” buttons, then input the frequency value and symbol rate value by numeric key, choose the correct Polarization, Horizontal or Vertical then save and exit.



[4] DELETE TP
Press the BLUE button “TV/RADIO”, to delete the current selected TP.

8.3 Motor Configuration (DiSEqC1.2)

This section is used to set up the auto Satellite Dish (DiSEqC1.2 system) location system.



- **Satellite Name / Transponder:** Choose a satellite or a TP in the same way as previously described.
- **Continuously Move:** Using the ”VOL-” and “VOL+” buttons select West or East movement of the dish, use the signal strength and quality bars at the bottom of the screen to judge the best position for the dish.
- **Move steps:** Dish moves step by step, adjust the dish to East or West for the best position.
- **Step Size:** Adjust the Move Step size in increments from 1 to 10.
- **Limit set:** Using “VOL-/+” buttons to fix East or West limits or disable movement limits.
- **Reference position:** Set the original position for the satellite recorder dish.
- **(Reset):** Calculate.

8.4 USALS (DiSEqC) Set-Up

This Menu is used to setup the USALS system on your set top box.

If you have a USALS motorized system, you must set your position (latitude and longitude) in order to calculate all motor positions for viewable satellites. You should refer to the motor’s manual to get more information.

- **User Latitude:** Enter your Latitude using the numerical keys.
- **North / South:** Default is NORTH for UK

- **User Longitude:** Enter your Longitude using the numerical keys
- **East / West:** Select EAST / WEST depending on the Satellite locations
- **Tuner A USALS:** Set to ON as required.
- **Tuner B USALS:** Set to ON as required.

Enter the required information as above and then press OK to SAVE and EXIT back to the INSTALLATION MENU. Please refer to your Motorised Dish Installation Manual for further information.

8.5 Tuner Set-Up

- **Tuner connect type:** Choose from different satellites or same satellites.

  N.B. IMPORTANT: This has to be set to 'Same Satellite' if you wish to record one channel whilst watching another on the same satellite
- **Tuner A LNB Power:** Tuner LNB power OFF if required.
- **Tuner B LNB Power:** Tuner LNB power OFF if required.

9.0 Software Update:

NOTE: This function MUST be used with EXTREME CAUTION. ONLY Software provided by your Service Centre can be used. Use of other Software may damage your device and invalidate your warranty. During the UPDATE process DO NOT press any buttons or switch the unit off.

- **Procedure:**

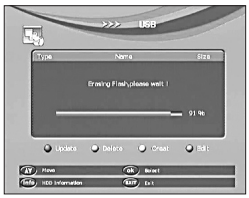
1) Turn on the set top box, insert the USB device, enter; **MENU->User's Conference ->Multimedia**, select the USB device and press the "**OK**" button to enter, and then select the BIN file, and press the **RED** button (SAT) on the remote control to begin the update.

2) After erasing the original software, the new software will be installed. This may take several minutes.

3) When the update is finished, the set top box will restart automatically.

4) After successfully updating software, it is best to conduct a 'factory default' (see 5.4.4).

1)



2)

3)

10.0 Trouble Shooting:

If you have problems with the set top box, please consult the table below because it may be a simple problem that can be solved at home.

Problem	Possible Cause	Possible Remedy
Power turned on, but no display on screen or lights on the set top box.	Plug not inserted correctly.	Remove plug and reinsert into the socket.
When recording a TV programme I cannot watch another.	Second LNB feed unattached or tuner not set to same Satellite.	Ensure both LNB inputs connected and tuner set to same Satellite
The set top box has power but cannot find any channels or shows any signal strength.	Is the Satellite dish installed correctly.	Reinstall the dish and calibrate it.
	LNB inputs are not connected correctly.	Reconnect the cables to the LNB and receiver.
	Bad weather.	Attempt again later during better weather.
	Incorrect setup of settings.	Set the proper parameters of received programme in the system settings menu.
The set top box has power but on TV shows “No signal” or cannot switch to the input the set top box is connected to.	Bad connection between TV and the set top box.	Check all the connection cables.
	Incompatible video format.	Press the V-format button on the remote control. To cycle between the different formats.
Video stops/disappears.	Changed V-format.	The set top box needs time to change output format, wait for a few seconds and video and audio will return.
TV program plays a strange sound.	Channel may contain more than one audio track or languages.	User can use the “Audio” button on the remote control to select the correct audio track or audio languages for the TV program.

Tips: If you refer to this troubleshooting guide, but find no solution for the problem you encountered. Please contact the Ross Helpline. **DO NOT OPEN THE SET TOP BOX.**

CHECK ROSS.CO.UK FOR REGULAR SOFTWARE UPDATES.

WARNING:
Problems can be caused by the use of unofficial software. The use of software versions other than dealers or distributors official software will void the manufacturer’s warranty. It is advised that only the formal software released from dealers or distributors should be used.

11.0 Specification

1.Tuner & Modulator

Input Frequency:	950MHz to 2150MHz
Input Impendence:	75 ohms
Demodulation:	QPSK S2
Input Level:	-65dBm to-25dBm
Input Socket:	F type connector
LNB Power & Polarization:	Horizontal:+18V; Vertical: +13V;
Current: (short circuit protection)	Max 500mA;
Symbol Rate:	2~45MS/s
Code Rate:	1/2,2/3,3/4,5/6,7/8

2.MPEG2 Decoding

Transport Stream & Profile Level:	MPEG-4, 264, MPEG-2@ML MP@HL, MPEG-4/AVC
Aspect Ratio:	4:3/16:9
Output:	NTSC/PAL
Video Format:	576i, 576p,720p,1080i
Audio Decoding:	MPEG-Layer I&II
Audio Mode:	Stereo
Sampling Frequency:	32,44.1,48 KHz

3. System

CPU:	266MHz
Flash:	8-16MByte
Sram:	256MByte
CAM CI:	1 x Common Interface
Band Switch:	22KHz, DiSEqc
SCART:	TV & VCR (CVBS, RGB)
HDMI:	HD Video/Audio Output
USB:	2.0 Host
S/PDIF:	Coaxial and Optical
Component:	Y/Pb/Pr output
RCAA/V:	Video CVBS, Audio L/R
Ethernet:	Internet Connection

4. General

Supply Voltage:	170-240 VAC 50Hz.
Power Consumption:	Max.45W
Standby Power:	Max.3W
Operating Temperature:	+5^{0}C to +40^{0}C
StorageTemperature:	-20^{0}C to +70^{0}C
Dimension:	320 x 230 x 56mm

ROSS

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For further product information please go to: **www.ross.co.uk**